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Client/Matter No. 0729-007US1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: George Seaver  
SERIAL NUMBER: 09/932,497 EXAMINER:  
FILING DATE: August 17, 2001 ART UNIT: 2878  
FOR: SOLID-STATE SYSTEM FOR TRACKING AND REGULATING OPTICAL BEAMS

Commissioner for Patents  
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application. A copy of each of the listed documents is submitted herewith. The order of presentation of the references should not be construed as an indication of the importance of the references.

This Information Disclosure Statement is being been filed:

- ☒ within three months of the filing date of the National Application;
- ☐ within three months of the filing date of the entry of the National Stage, as set forth in 37 C.F.R. §1.491, in an International Application; or
- ☒ before the mailing date of a first Office Action on the merits in the above-identified case.

Accordingly, no fee or certification is required. 37 C.F.R. §1.97.

It is respectfully requested that the Examiner consider completely the cited information in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

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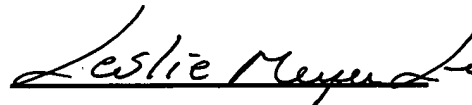
APPLICANT: George Seaver  
U.S.S.N.: 09/932,497

By submitting this Information Disclosure Statement, the Applicant makes no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested. Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-1895, Client/Matter No. 0729-007US1.

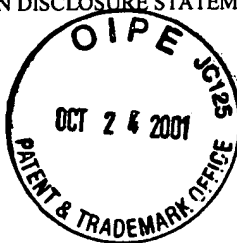
Respectfully submitted,

Dated: 10/24/01

  
Leslie Meyer-Leon, Esq.  
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<b>FORM PTO-1449(Modified)</b>  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  	ATTY. DOCKET NO. <b>0729-007US1</b>	SERIAL NO. <b>09/932,497</b>
	APPLICANT <b>George Seaver</b>	
	FILING DATE <b>August 17, 2001</b>	GROUP <b>2878</b>

## U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
		5,016,957	05-21-1991	Seaver			11-20-1989
		5,095,515	03-10-1992	Seaver			05-17-1991
		5,383,048	01-17-1995	Seaver			02-03-1993
		6,034,811	03-07-2000	Seaver			01-28-1998
		6,084,229	07-04-2000	Pace et al.			03-16-1998
		5,517,016	05-14-1996	Lesh et al.			03-31-1994

## FOREIGN PATENT DOCUMENTS

	Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes No

## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

	National Aeronautics and Space Administration Contract No. NAS 7-918 Technical Support Package on "Acquisition, Tracking, and Printing in Optical Communication" for 03/01/2001 Nasa Tech Brief Vol. 25, No. 3 from JPL New Technology Report NPO-20889, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, pgs. 1a-26a.
	Proceedings of SPIE "Free-Space Laser Communication Technologies XIII," Volume 4272, G. Stephen Mecherle, Chair/Editor, 24-25 January 2001, San Jose, USA: "Demonstration of multi-channel optical CDMA for free space communications" by K. Sayano, I. Nguyen, and J.K. Chan, pgs. 38-49; "45 Km horizontal path optical link demonstrations" by Abhijit Biswas, Malcom W. Wright, Babak Sanii, Norman A. Page, pgs. 60-71; "Modeling of the tracking system components of the laser satellite communication systems" by Vladimir V. Nikulin, Mounir Bouzoubaa, Victor A. Skormin, Timothy E. Busch, Watson School of Eng., Binghamton Univ., Binghamton, NY, Air Force Research Lab. at Rome, NY, pgs. 72-82; "Model reference control of a laser beam steering system for laser communication applications" by Mounir Bouzoubaa, Vladimir V. Nikulin, Victor A. Skormin, Timothy E. Busch, Binghamton University (SUNY), Binghamton, NY, Air Force Research Laboratory at Rome, NY, pgs. 93-103; "Sub-microradian Pointing System Design for Deep-Space Optical Communications" by Shinhak Lee, James W. Alexander, and Gerry G. Ortiz, pgs. 104-111.
	AirFiber's web site at: <a href="http://www.airfiber.com/products/faq/Html/About_Free-Space_Optics_and.htm">http://www.airfiber.com/products/faq/Html/About_Free-Space_Optics_and.htm</a> "Why is OptiMesh better?" 1 pg. downloaded on 07/26/2001.
	AirFiber's web site at: <a href="http://www.airfiber.com/products/faq/Html/Technical_specifications_for_optics.htm">http://www.airfiber.com/products/faq/Html/Technical_specifications_for_optics.htm</a> "Technical Specifications for Optics" 1 pg. downloaded on 07/26/2001.
	Proceedings of SPIE "Optical Wireless Communications III", Volume 4214, Eric J. Korevaar, Chair/Editor, 6-7 November 2000, Boston, USA, "Free Space Optical Technology and Distribution Architecture for Broadband Metro and Local Services," pgs. 72-85.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.